

# Ethiopia - Rural Socioeconomic Survey 2011-2012

**Central Statistical Agency - Ministry of Finance and Economic Development  
Living Standards Measurement Study Team - The World Bank**

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# Overview

## Identification

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ID NUMBER  
ETH\_2011\_ERSS\_v01\_M

## Overview

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### ABSTRACT

The Ethiopian Rural Socioeconomic Survey (ERSS) is a collaborative project between the Central Statistics Agency of Ethiopia (CSA) and the World Bank Living Standards Measurement Study- Integrated Surveys on Agriculture (LSMS-ISA) team. The objective of the LSMS-ISA is to collect multi-topic panel household level data with a special focus on improving agriculture statistics and the link between agriculture and other sectors of the economy. The project also aims to build capacity, share knowledge across countries, and improve survey methodologies and technology.

The specific objectives of the ERSS are:

- Development of an innovative model for collecting agricultural data in conjunction with household data;
- Strengthening the capacity to generate a sustainable system for producing accurate and timely information on agricultural households in Ethiopia;
- Development of a model of inter-institutional collaboration between the CSA and relevant federal and local government agencies as well as national and international research and development partners; and
- Comprehensive analysis of household income, well-being, and socio-economic characteristics of households in rural areas and small towns.

### UNITS OF ANALYSIS

- Household
- Person/ individual
- Community

## Scope

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### NOTES

The 2011/12 Ethiopian Rural Socioeconomic Survey covered the following topics:

#### HOUSEHOLD LEVEL

- Identification particulars (geographic area identification and household id)
- Household roster
- Education
- Health
- Time use and labour
- Food last 7 days
- Food aggregate

- Non-food expenditure (last month and last 12 months)
- Food security
- Shocks
- Housing
- Assets
- Non-farm enterprise
- Other income
- Assistance
- Credit

#### AGRICULTURE (Post planting)

- Identification particulars (geographic area identification and household id)
- Household roster
- Parcel roster (list of all parcels)
- Field roster
- Crop field roster
- Seeds roster
- Miscellaneous questions for the holder

#### AGRICULTURE (Post harvest)

- Identification particulars (geographic area identification and household id)
- Household roster
- Crop harvest (exclude tree/root crops)
- Harvest hired labour
- Crop disposition (exclude tree/root crops)
- Trees/ fruit/ root crops

#### AGRICULTURE (Livestock)

- Identification particulars (geographic area identification and household id)
- Livestock population and products
- Livestock feeds utilized during the last 12 months
- Livestock by-products during the last 12 months

#### COMMUNITY LEVEL

- Identification particulars (geographic area identification)

- Roster of informants
- Basic information
- Access to basic services
- Economic activities
- Agriculture
- Changes
- Community needs and actions
- Productive safety nets and programme
- Market prices (1st and 2nd locations)

## Coverage

### GEOGRAPHIC COVERAGE

Rural and small towns

## Producers and Sponsors

### PRIMARY INVESTIGATOR(S)

Name	Affiliation
Central Statistical Agency	Ministry of Finance and Economic Development
Living Standards Measurement Study Team	The World Bank

### FUNDING

Name	Abbreviation	Role
The World Bank	WBG	Funded the study

## Metadata Production

### METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Development Data Group	DECDG	The World Bank	Metadata preparation

### DATE OF METADATA PRODUCTION

2014-09-02

### DDI DOCUMENT VERSION

Version 01 (September 2014)

### DDI DOCUMENT ID

DDI\_ETH\_2011\_ERSS\_v01\_M\_WB

# Sampling

## Sampling Procedure

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The ERSS sample is designed to be representative of rural and small town areas of Ethiopia. The ERSS rural sample is a sub-sample of the AgSS while the small town sample comes from the universe of small town EAs. The ERSS sample size provides estimates at the national level for rural and small town households. At the regional level, it provides estimates for four regions including Amhara, Oromiya, SNNP, and Tigray.

The sample is a two-stage probability sample. The first stage of sampling entailed selecting primary sampling units, which are a sample of the CSA enumeration areas (EAs). For the rural sample, 290 EAs were selected from the AgSS EAs. The AgSS EAs were selected based on probability proportional to size of the total EAs in each region. For small town EAs, a total of 43 EAs were selected. In order to ensure sufficient sample in the most populous regions (Amhara, Oromiya, SNNP, and Tigray), quotas were set for the number of EAs in each region. The sample is not representative for each of the small regions including Afar, Benshangul Gumuz, Dire Dawa, Gambella, Harari, and Somalie regions. However, estimates can be produced for a combination of all smaller regions as one "other region" category.

The second stage of sampling was the selection of households to be interviewed in each EA. For rural EAs, a total of 12 households are sampled in each EA. Of these, 10 households were randomly selected from the sample of 30 AgSS households. The AgSS households are households which are involved in farming or livestock activities. Another 2 households were randomly selected from all other households in the rural EA (those not involved in agriculture or livestock). In some EAs, there is only one or no such households, in which case, less than two non-agricultural households were surveyed and more agricultural households were interviewed instead so that the total number of households per EA remains the same.

In the small town EAs, 12 households are selected randomly from the listing of each EA, with no stratification as to whether the household is engaged in agriculture/livestock. Households were not selected using replacement. Thus, the final number of household interviewed was slightly less than the 3,996 as planned in the design.

## Response Rate

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A total of 3,969 households were interviewed with a response rate of 99.3 percent.

# Questionnaires

## Overview

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The survey was administered using five questionnaires: household, community, post-planting agriculture, post-harvest agriculture and livestock questionnaires.

The household questionnaire collects information on basic demographics; education; health (including anthropometric measurement for children); labor and time use; partial food and non-food expenditure; household nonfarm income-generating activities; food security and shocks; safety nets; housing conditions; assets; credit; and other sources of household income. The household questionnaire, when relevant, is comparable to the Welfare Monitoring Survey (WMS).

The community questionnaire gathered information on access to infrastructure; community organizations; resource management; changes in the community; key events; community needs, actions and achievements; and local retail price information.

Post-planting and post-harvest agriculture questionnaires were completed in those households with at least one member of the household engaged in crop farming using owned or rented land. The post-planting and post-harvest agriculture questionnaires focused on farming activities and solicit information on land ownership and use; farm labor; inputs use; GPS land area measurement and coordinates of household fields; agriculture capital; irrigation; and crop harvest and utilization.

The livestock questionnaire interviews were implemented in households where at least one member was engaged in livestock rearing. The livestock questionnaire collected information on animal holdings and costs; and production, cost and sales of livestock byproducts.

## Data Collection

### Data Collection Dates

Start	End	Cycle
2011-09	2011-10	First round
2011-11	2011-12	Second round
2012-01	2012-03	Third round

### Data Collection Mode

Face-to-face [f2f]

### Data Collection Notes

Field staff training took place in July and August 2011 and in January 2012. The July/August 2011 training sessions covered content training on the agriculture questionnaires while the January 2012 training focused on household and community questionnaires.

Data collection began in September 2011 and the three rounds of field work followed the AgSS field schedule. The first round took place between September and October 2011 when the post-planting agriculture questionnaire was administered. The second round took place between November and December 2011 when the livestock questionnaire was administered. The third round took place from January through March 2012 when the household, community and post-harvest agriculture questionnaires were administered.

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### Data Collectors

Name	Abbreviation	Affiliation
Central Statistical Agency	CSA	Ministry of Finance and Economic Development

# Data Processing

## Data Editing

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Most of the interviews were carried out using paper and pen interviewing method. The completed paper questionnaires were sent to the CSA headquarters in Addis Ababa. The questionnaires were first checked by editors for completeness and consistency. The editors checked completeness (taking inventory) and cross-checked the questionnaires with the EA codebook. Questionnaires with inconsistent responses or with errors were corrected by contacting the branch offices or, in some cases, by sending the questionnaires back to the field. Checked questionnaires were keyed by data entry clerks at the head office using CSPro data entry application software.

Computer assisted personal interviewing (CAPI) was implemented, as a pilot, in 33 of the 333 EAs using SurveyBe data collection software.

The data cleaning process was done in two stages. The first step was at the CSA head office using the CSA's data cleaning staff. The CSA data cleaning staff used the CSPro data cleaning application to capture out of range values, outliers, and skip inconsistencies from the batch error reports. Once the errors were flagged in the batch error report the hard copy of the original questionnaire was retrieved and checked if the errors were at the data collection, editing, or entry level. Editing and entry level errors were corrected at the head office. Field level errors were communicated with the branch offices in the regions. The second level of data cleaning was done using Stata program to check for inconsistencies.

# Data Appraisal

No content available



# Documentation

## Questionnaires

### 2011/12 Ethiopian Rural Socioeconomic Survey, Household Questionnaire

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Title 2011/12 Ethiopian Rural Socioeconomic Survey, Household Questionnaire  
 subtitle Form ERSS-H  
 Author(s) Ethiopian Central Statistical Agency The World Bank  
 Country Ethiopia  
 Language English  
 Filename 2\_HH\_Questionnaire\_English.pdf

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### 2011/12 Ethiopian Rural Socioeconomic Survey, Household Questionnaire (in Amharic)

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Title 2011/12 Ethiopian Rural Socioeconomic Survey, Household Questionnaire (in Amharic)  
 subtitle Form ERSS-H  
 Author(s) Ethiopian Central Statistical Agency The World Bank  
 Country Ethiopia  
 Language Amharic  
 Filename 1\_HH\_Questionnaire\_Amharic.pdf

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### 2011/12 Ethiopian Rural Socioeconomic Survey, Agriculture Questionnaire, Post Planting

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Title 2011/12 Ethiopian Rural Socioeconomic Survey, Agriculture Questionnaire, Post Planting  
 subtitle Form ERSS-A  
 Author(s) Ethiopian Central Statistical Agency The World Bank  
 Country Ethiopia  
 Language English  
 Filename 1b\_Post\_Planting\_English.pdf

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### 2011/12 Ethiopian Rural Socioeconomic Survey, Agriculture Questionnaire, Post Planting (in Amharic)

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Title 2011/12 Ethiopian Rural Socioeconomic Survey, Agriculture Questionnaire, Post Planting (in Amharic)  
 subtitle Form ERSS-A  
 Author(s) Ethiopian Central Statistical Agency The World Bank  
 Country Ethiopia  
 Language Amharic  
 Filename 1a\_Post\_Planting\_Amharic.pdf

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### 2011/12 Ethiopian Rural Socioeconomic Survey, Agriculture Questionnaire, Post Harvest

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Title 2011/12 Ethiopian Rural Socioeconomic Survey, Agriculture Questionnaire, Post Harvest  
subtitle Form ERSS-A  
Author(s) Ethiopian Central Statistical Agency The World Bank  
Country Ethiopia  
Language English  
Filename 2b\_Post\_Harvest\_English.pdf

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## **2011/12 Ethiopian Rural Socioeconomic Survey, Agriculture Questionnaire, Post Harvest (in Amharic)**

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Title 2011/12 Ethiopian Rural Socioeconomic Survey, Agriculture Questionnaire, Post Harvest (in Amharic)  
subtitle Form ERSS-A  
Author(s) Ethiopian Central Statistical Agency The World Bank  
Country Ethiopia  
Language Amharic  
Filename 2a\_Post\_Harvest\_Amharic.pdf

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## **2011/12 Ethiopian Rural Socioeconomic Survey, Agriculture Questionnaire, Livestock**

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Title 2011/12 Ethiopian Rural Socioeconomic Survey, Agriculture Questionnaire, Livestock  
subtitle Form ERSS-A  
Author(s) Ethiopian Central Statistical Agency The World Bank  
Country Ethiopia  
Language English  
Filename 3b\_Livestock\_English.pdf

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## **2011/12 Ethiopian Rural Socioeconomic Survey, Agriculture Questionnaire, Livestock (in Amharic)**

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Title 2011/12 Ethiopian Rural Socioeconomic Survey, Agriculture Questionnaire, Livestock (in Amharic)  
subtitle Form ERSS-A  
Author(s) Ethiopian Central Statistical Agency The World Bank  
Country Ethiopia  
Language Amharic  
Filename 3a\_Livestock\_Amharic.pdf

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## **2011/12 Ethiopian Rural Socioeconomic Survey, Community Questionnaire**

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Title 2011/12 Ethiopian Rural Socioeconomic Survey, Community Questionnaire  
subtitle Form ERSS-C  
Author(s) Ethiopian Central Statistical Agency The World Bank  
Country Ethiopia  
Language English  
Filename 2\_Community\_Questionnaire\_English.pdf

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## **2011/12 Ethiopian Rural Socioeconomic Survey, Community**

## Questionnaire (in Amharic)

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Title 2011/12 Ethiopian Rural Socioeconomic Survey, Community Questionnaire (in Amharic)  
 subtitle Form ERSS-C  
 Author(s) Ethiopian Central Statistical Agency The World Bank  
 Country Ethiopia  
 Language Amharic  
 Filename 1\_Community\_Questionnaire\_Amharic.pdf

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## Reports

### 2011/12 Ethiopian Rural Socioeconomic Survey, Survey Report

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Title 2011/12 Ethiopian Rural Socioeconomic Survey, Survey Report  
 Author(s) Ethiopian Central Statistical Agency The World Bank  
 Date 2013-05-07  
 Country Ethiopia  
 Language English  
 Executive Summary

#### CHAPTER I: SURVEY OBJECTIVES, DESIGN & IMPLEMENTATION

- 1.1 Objectives
- 1.2 Survey Design
- 1.3 Instruments, Training and Fieldwork
- 1.4 Data Entry and Cleaning
- 1.5 Organization of the Survey Report

#### CHAPTER II: DEMOGRAPHY, EDUCATION AND HEALTH

- 2.1 Household Demography
- 2.2 Education
- 2.3 Health

#### CHAPTER III: HOUSING CHARACTERISTICS AND HOUSEHOLD ASSETS

- 3.1 Housing characteristics: Ownership, structure and facilities
- 3.2 Household Assets

#### CHAPTER IV: AGRICULTURE

- Table of contents
- 4.1 Agricultural Households
  - 4.2 Crop Farming
  - 4.3 Livestock

#### CHAPTER V: NON-FARM ENTERPRISES, OTHER INCOME, AND ASSISTANCE

- 5.1 Non-Farm Enterprises
- 5.2 Other Income
- 5.3 Assistance from government and non-governmental agencies

#### CHAPTER VI: TIME USE AND LABOR

- 6.1 The ERSS time use data
- 6.2 Collecting water and fuel wood
- 6.3 Agricultural activities
- 6.4 Non-farm enterprise activities
- 6.5 Casual, part-time and temporary work
- 6.6 Work for salary and wages
- 6.7 Apprentice and unpaid work

#### CHAPTER VII: CONSUMPTION, FOOD SECURITY AND SHOCKS

- 7.1 Consumption & Expenditure
- 7.2 Food Security
- 7.3 Shocks & Coping Mechanisms

Filename ERSS\_Survey\_Report.pdf

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## Technical documents

### 2011/12 ERSS, Enumerator Manual for Household, Agriculture, and Community Questionnaires

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Title	2011/12 ERSS, Enumerator Manual for Household, Agriculture, and Community Questionnaires
Author(s)	Ethiopian Central Statistical Agency The World Bank
Date	2011-09-01
Country	Ethiopia
Language	English

## CHAPTER 1. INTRODUCTION

## CHAPTER 2. THE SURVEY SAMPLE

- 2.1 INCLUSION IN THE SURVEY
- 2.2 EXCLUSION FROM THE SURVEY
- 2.3 COVERAGE RULES

## CHAPTER 3. COMPLETION OF THE QUESTIONNAIRES

- 3.1 QUESTIONNAIRE TRANSLATION
- 3.2 QUESTIONNAIRE FORMATTING
- 3.3 HOW TO ADMINISTER THE QUESTIONNAIRE
- 3.4 ENUMERATOR INTERACTIONS WITH THE COMMUNITY
- 3.5 ENUMERATOR INTERACTIONS WITH THE RESPONDENTS
- 3.6 GENERAL INSTRUCTIONS FOR COMPLETING THE QUESTIONNAIRES
- 3.7 HOW TO READ THE QUESTIONS
- 3.8 FORMAT OF THE QUESTIONS
- 3.9 QUESTIONS NOT TO BE READ ALOUD TO RESPONDENTS
- 3.10 HOW TO RECORD RESPONSES
- 3.11 HOW TO CORRECT MISTAKES
- 3.12 THE "OTHER" CATEGORY
- 3.13 HISTORICAL EVENTS AND AGES
- 3.14 NON-RESPONSE OR INABILITY TO PROVIDE A RESPONSE
- 3.15 FLOWS AND SKIPS
- 3.16 CODING
- 3.17 REFERENCE PERIODS
- 3.18 RESPONDENTS
- 3.19 GENERAL NOTES

## CHAPTER 4. SECTION BY SECTION DESCRIPTION of THE HOUSEHOLD QUESTIONNAIRE

- SECTION 1: HOUSEHOLD ROSTER
- SECTION 2: EDUCATION
- SECTION 3: HEALTH
- SECTION 4: TIME USE AND LABOR
- SECTION 5A: FOOD OVER THE LAST 7 DAYS
- SECTION 5B: FOOD
- SECTION 6: NON-FOOD EXPENDITURE
- SECTION 7: FOOD SECURITY
- SECTION 8: SHOCKS
- SECTION 9: HOUSING
- SECTION 10: ASSETS
- SECTION 11A: NON-FARM ENTERPRISE- PART 1
- SECTION 11B: NON-FARM ENTERPRISE - PART 2
- SECTION 12: OTHER INCOME
- SECTION 13: ASSISTANCE
- SECTION 14: CREDIT
- SECTION 15: CONTACT INFORMATION

Table of contents

## CHAPTER 5. SECTION BY SECTION DESCRIPTION of THE AGRICULTURE QUESTIONNAIRE

- 5.1 POST-PLANTING MODULE
- SECTION 1: HOUSEHOLD ROSTER
- SECTION 2: PARCEL ROSTER
- SECTION 3: FIELD ROSTER
- SECTION 4: CROP FIELD ROSTER
- SECTION 5: SEEDS ROSTER
- SECTION 6: GENERAL QUESTIONS AT THE HOLDER LEVEL
- NETWORK ROSTER FOR POST-PLANTING
- 5.2 LIVESTOCK
- SECTION 1: HOUSEHOLD ROSTER
- SECTION 8A: LIVESTOCK/BEEHIVE POPULATION
- SECTION 8B: LIVESTOCK FEED
- SECTION 8C: LIVESTOCK BYPRODUCTS AND DISPOSITION
- 5.3 POST-HARVEST
- SECTION 1: HOUSEHOLD ROSTER
- SECTION 9: CROP CUTTING AND HARVEST BY FIELD
- SECTION 10: HARVEST LABOR
- SECTION 11: TEMPORARY CROP DISPOSITION
- SECTION 12: PERMANENT/ ROOT/ TREE CROP DISPOSITION
- NETWORK ROSTER - POST-HARVEST

## CHAPTER 6. SECTION BY SECTION DESCRIPTION of THE COMMUNITY QUESTIONNAIRE

- SECTION 1.1: AREA IDENTIFICATION AND STAFF DETAILS
- SECTION 1.2: DIRECT OBSERVATION BY SUPERVISOR
- SECTION 2: ROSTER OF INFORMANTS
- SECTION 3: BASIC INFORMATION
- SECTION 4: ACCESS TO BASIC SERVICES
- SECTION 5: ECONOMIC ACTIVITIES
- SECTION 6: AGRICULTURE
- SECTION 7: CHANGES
- SECTION 8: COMMUNITY NEEDS & ACTIONS
- SECTION 9: PRODUCTIVE SAFETY NETS PROGRAM
- SECTION 10: MARKET PRICES

## CHAPTER 7. FIELD DUTIES AFTER COMPLETING THE QUESTIONNAIRE

- 7.1 COMPLETION OF THE INTERVIEW
- 7.2 SUBMISSION OF THE QUESTIONNAIRE TO THE FIELD SUPERVISOR

## ANNEX 1. HOW TO USE THE GLOBAL POSITIONING SYSTEM (GPS)

## ANNEX 2. NETWORK ROSTER DETAILS

## ANNEX 3. OCCUPATION AND INDUSTRY CODES

Filename ERSS\_Manual\_HH\_AG\_COM\_APRIL\_30\_ENGLISH.pdf

## 2011/12 ERSS, Crop Cutting Manual

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Title	2011/12 ERSS, Crop Cutting Manual
Author(s)	Ethiopian Central Statistical Agency The World Bank
Date	2013-03-01
Country	Ethiopia
Language	English
Description	<p>This manual is taken from the CSA's Annual Agricultural Sample Survey manual. It is slightly modified to fit into the Ethiopia Rural Socioeconomic Survey (ERSS). The manual discusses the survey protocols that are followed during crop cutting. It provides information on the procedures including field selection, crop cutting area identification and demarcation, crop cutting, and documenting the results.</p>
Table of contents	<p>1. INTRODUCTION</p> <p>1.1 Purpose of the manual</p> <p>1.2 Summary of the crop cutting procedure</p> <p>1.3 Tools and materials needed in the field</p> <p>2. FIELD SELECTION PROCEDURE FOR CROP CUTTING</p> <p>2.1. Taking inventory of eligible crop-fields for crop cutting</p> <p>2.2. Preparing the listing table by crop</p> <p>2.3. Random selection of crop fields for crop cutting</p> <p>2.4. Special Cases</p> <p>2.4.1. Mixed or intercropped fields</p> <p>2.4.2. Damages and replanting</p> <p>2.4.3. Multiple harvest</p> <p>3. DEMARCATING THE 2MX2M PLOT FOR CROP-CUTTING</p> <p>4. RECORDING THE RESULTS</p> <p>5. WHAT TO DO AFTER THE CROP CUTTING IS COMPLETED</p>
Filename	ERSS_Crop_Cutting_Manual_English.pdf

## 2011/12 ERSS, Basic Information Document

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Title	2011/12 ERSS, Basic Information Document
Author(s)	Ethiopian Central Statistical Agency The World Bank
Date	2013-09-01
Country	Ethiopia
Language	English

	1. Introduction
	2. The Survey Instruments
	3. Sample Design
	4. Field Work
	4.1 Training of Field Staff and Data Entry Operators for the Survey
	4.2 Field Work Organization & Data Collection
	4.3 Fieldwork Monitoring and Evaluation
	5. Data Management and Description of Datasets
	5.1 Data Management
	5.2 Description of Public Datasets
	6. Using the ERSS Public Data
Table of contents	6.1 File Structure
	6.2 Merging Datasets
	6.3 Network Roster
	7. Overall Problems and Challenges Faced During the First Wave of the Survey and Recommendations for the Second Wave of the Survey
	7.1 Survey Instruments
	7.2 Challenges in implementing CAPI
	7.3 Challenges in implementing PAPI
	7.4 Data Entry and Cleaning
	7.5 Consumption data and seasonality
	7.6 Self-reported crop production
	Appendix 1: Geospatial Data with the ERSS
	Appendix 2: Dates in the Data
	Appendix 3 Crop Codes
	Appendix 4: How to Obtain Copies of the Data
Filename	ERSS_Basic_Information_Sept_2013.pdf

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